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10/766,040 01/29/2004		1/29/2004	Osamu Tsuboi	011459A 2577	
23850	7590	12/27/2005	EXAMINER		
		ATZ, QUINTOS,	PRITCHETT, JOSHUA L		
1725 K STR SUITE 1000	•		ART UNIT	PAPER NUMBER	
WASHING	TON, DC	20006	2872		

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Application No.    10/766,040				Ø			
## Examiner ## Doshua L Pritchett   2872			Application No.	Applicant(s)			
Solition   Pritchett   2872   Period for Reply   A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  Be detensioned into many be available under the provisions of 3 CFR 1.136(a). In no event, however, may a reply the timer's little detention of the provision of 3 CFR 1.136(a). In no event, however, may a reply the timer's little and the provision of 3 CFR 1.136(a). In no event, however, may a reply the timer's little and the provision of 3 CFR 1.136(a). In no event, however, may a reply the timer's little and the provision of 3 CFR 1.136(a). In no event, however, may a reply the timer's little specified above, the maintainer of the provision of the maintainer of the provision of the provisio			10/766,040	TSUBOI ET AL.			
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1) ⊠ Responsive to communication(s) filed on \$\textit{08}\$ November 2005.  2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.  3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under \$Ex\$ parte Quayle, 1935 C.D. 11, 453 O.G. 213.  Disposition of Claims  4) ☒ Claim(s) \$\frac{19-29}{2.92}\$ is/are pending in the application. 4a) Of the above claim(s)	WHIC - Exter after - If NO - Failu Any r	CHEVER IS LONGER, FROM THE MAILING DA nsions of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period we tre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing	ATE OF THIS COMMUNICATION  BEGON THIS COMMUNICATION  BEGON THIS COMMUNICATION  ATERIOR OF THIS COMMUNICATION  BEGON THIS COMMUNICATION  ATERIOR OF THIS COM	N). imely filed in the mailing date of this communication. ED (35 U.S.C. § 133).			
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2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)	1) Notic	ee of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail [	Date			

## **DETAILED ACTION**

This action is in response to Request for Continued Examination and Amendment filed November 8, 2005. Claim 20 has been amended as requested by the applicant.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 19-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Behin (US 6,593,677) in view of McClelland (US 6,201,629) and McDonald (US 5,774,604).

Regarding claims 19 and 29, Behin teaches a micromirror unit comprising an inner frame (511), an electrode base (508), the frame provided with outwardly extending comb-teeth electrodes (505) and the electrode base provided with inwardly extending comb-teeth electrodes (506; Fig. 5); an outer frame (Fig. 5) surrounding the inner frame, the outer frame including a frame member (Fig. 5), a plurality of auxiliary portions (503, 504), at least one of the auxiliary portions with inwardly extending comb-teeth electrodes inerative with the outwardly extending comb-teeth electrodes of the inner frame (Fig. 5) at least another of the auxiliary portions being

Art Unit: 2872

electrically separate from the one auxiliary portion (col. 9 lines 52-55); a mirror forming base (509) interactive with the inwardly extending comb-teeth electrodes of the inner frame (Fig. 5); an inner torsion connection (510) connecting the frame body of the inner frame to the mirror forming base (Fig. 5); and an outer torsion connector (512) which connects the inner frame to the outer frame and defines an axis about which the inner frame and the mirror forming base are rotated relative to the outer frame (Fig. 5), the outer torsion connection having a width measured in the direction which is parallel to the mirror surface and perpendicular to the axis (Fig. 5); wherein the outer torsion connector comprises a plurality of torsion bars (Fig. 5), at least one of the torsion bars connecting the frame body of the inner frame to the frame member of the outer frame, at least another of the torsion bars connecting the electrode base of the inner frame to the auxiliary portion of the outer frame (Fig. 5). Behin lacks reference to the use of a mirror on the mirror forming base, but suggests the use of the apparatus in optical elements (abstract). Behin further lacks reference to the use of an insulating layer, but suggests electrical isolation of the components (col. 9 lines 52-55). Behin further lacks reference to the use of a torsion bar with a non-constant width. Behin further lacks a plurality of torsion bars on the same side of the inner frame. McClelland teaches the use of a mirror on the mirror forming base (4, Fig. 13B). McClelland teaches the use of an insulating layer (54) between the frame layer (55) and the electrode layer (56) in a micromirror unit (Fig. 13C). McDonald teaches a MEMS device with a torsion connector gradually becoming smaller from the inner frame (10) to the outer frame (Fig. 1b). McDonald further teaches a plurality of torsion bars on the same side of the frame (Fig. 1c) capable of providing two electrically separate conductive paths. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention

Application/Control Number: 10/766,040

Art Unit: 2872

include the teachings of McClelland for the purpose of making the Behin invention a micromirror unit for use in an optical element, while maintaining electrical isolation of the various components of Behin and allowing the inner frame to rotate with a smaller amount of applied voltage. It would further have been obvious to one of ordinary skill in the art at the time the invention was made to have the Behin invention include the torsion connectors of McDonald for the purpose of decreasing the amount of force required to pivot the mirror on the inner frame.

Regarding claim 20, Behin teaches the inner torsion connector defines an axis about which the mirror forming base is rotated relative to the inner frame (Fig. 5), the torsion connector having a width measured in a direction which is parallel to the mirror surface and perpendicular to the axis. Behin lacks reference to the torsion connector having a non-constant width.

McDonald teaches the torsion bar having a non-constant width wherein the torsion bar becomes gradually smaller from the inner frame toward the outer frame (Fig. 1c). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention include the teachings of McDonald for the purpose of making the Behin mirror forming base rotate with a smaller amount of applied voltage.

Regarding claim 21, Behin teaches the axis of the inner torsion connector is perpendicular to the outer torsion connector (Fig. 5).

Regarding claim 22, Behin teaches the inner torsion connector includes a plurality of torsion bars (Fig. 5).

Regarding claims 23 and 24, Behin teaches the invention as claimed but lacks reference to the use of a non-constant width torsion connector. McDonald teaches the torsion bar having a non-constant width wherein the torsion bar becomes monotonically becomes smaller from the

Art Unit: 2872

inner frame toward the outer frame (Fig. 1c). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention include the teachings of McDonald for the purpose of making the Behin inner frame and mirror forming base rotate with a smaller amount of applied voltage.

Regarding claim 25, Behin teaches the inner torsion connector has on of a rectangular cross section, a circular cross section, and an elliptical cross section (Fig. 5).

Regarding claim 26, Behin teaches the invention as claimed but lacks reference to the torsion connector having a hollow structure. McDonald teaches the use of a torsion connector with a hollow structure (Figs. 1 b and c). The area between the two torsion bars shown in Figs. 1 b and c are hollow therefore the torsion connector which is comprises the two torsion bars is hollow. It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention include the teachings of McDonald for the purpose of making the Behin inner frame and mirror forming base rotate with a smaller amount of applied voltage.

Regarding claim 27, Behin teaches the invention as claimed but lacks reference to the use of a bifurcated torsion connector. McDonald teaches the use of a bifurcating portion in a torsion connector (Figs. 1 b and c). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention include the teachings of McDonald for the purpose of making the Behin inner frame and mirror forming base rotate with a smaller amount of applied voltage.

Regarding claim 28, Behin teaches the invention as claimed but lacks reference to a curved connecting portion. McClelland teaches the torsion connector having a curved

Art Unit: 2872

connecting portion (Fig. 19). It would have been obvious to a person of ordinary skill in the art at the time the invention was made to have the Behin invention include the teachings of McClelland for the purpose of making the Behin inner frame rotate with a smaller amount of applied voltage.

## Response to Arguments

Applicant's arguments filed November 8, 2005 have been fully considered but they are not persuasive.

Applicant argues that McDonald fails to disclose an inner frame connected to an outer frame by a plurality of torsion bars and the inner frame comprising a first and second portion.

These limitations are taught by the other references as described in the rejection above.

Applicant argues that it is meaningless for the torsion bars of McDonald to provide two electrically different conductive paths and therefore the combination lacks motivation and is therefore improper. The use of two different conduction paths is not meaningless. The two conduction paths provide for redundancy to allow the device to continue functioning if one of the electrical paths becomes damages as a result of the twisting of the torsion bars.

Applicant argues that the three-way combination of reference is only possible through reading the applicant's application. In response to applicant's argument that the examiner's conclusion of obviousness is based upon improper hindsight reasoning, it must be recognized that any judgment on obviousness is in a sense necessarily a reconstruction based upon hindsight reasoning. But so long as it takes into account only knowledge which was within the level of ordinary skill at the time the claimed invention was made, and does not include knowledge

Application/Control Number: 10/766,040

Art Unit: 2872

gleaned only from the applicant's disclosure, such a reconstruction is proper. See In re

McLaughlin, 443 F.2d 1392, 170 USPQ 209 (CCPA 1971).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua L. Pritchett whose telephone number is 571-272-2318.

The examiner can normally be reached on Monday - Friday 7:00 - 3:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Drew A. Dunn can be reached on 571-272-2312. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JLP W

DREW A. DUNN
SUPERVISORY PATENT EXAMINER

Page 7